

Anunciación Espinosa-Mansilla

List of Publications by Year in descending order

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109
papers

3,614
citations

117571

34
h-index

155592

55
g-index

109
all docs

109
docs citations

109
times ranked

2662
citing authors

#	ARTICLE	IF	CITATIONS
1	A new spectrophotometric method for quantitative multicomponent analysis resolution of mixtures of salicylic and salicyluric acids. <i>Talanta</i> , 1990, 37, 347-351.	2.9	335
2	ADSORPTION OF MERCURY, CADMIUM AND LEAD FROM AQUEOUS SOLUTION ON HEAT-TREATED AND SULPHURIZED ACTIVATED CARBON. <i>Water Research</i> , 1998, 32, 1-4.	5.3	160
3	Analysis of antibiotics in fish samples. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 987-1008.	1.9	115
4	Second-Order Advantage Achieved with Four-Way Fluorescence Excitation-Emission Kinetic Data Processed by Parallel Factor Analysis and Trilinear Least-Squares. Determination of Methotrexate and Leucovorin in Human Urine. <i>Analytical Chemistry</i> , 2004, 76, 5657-5666.	3.2	105
5	Interference-Free Analysis Using Three-Way Fluorescence Data and the Parallel Factor Model. Determination of Fluoroquinolone Antibiotics in Human Serum. <i>Analytical Chemistry</i> , 2003, 75, 2640-2646.	3.2	97
6	HPLC determination of enoxacin, ciprofloxacin, norfloxacin and ofloxacin with photoinduced fluorimetric (PIF) detection and multiemission scanning. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 822, 185-193.	1.2	93
7	Trilinear least-squares and unfolded-PLS coupled to residual trilinearization: New chemometric tools for the analysis of four-way instrumental data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006, 80, 77-86.	1.8	89
8	Simultaneous determination of sulfadiazine, doxycycline, furaltadone and trimethoprim by partial least squares multivariate calibration. <i>Analytica Chimica Acta</i> , 1995, 313, 103-112.	2.6	80
9	Determination of carbamazepine in serum and pharmaceutical preparations using immobilization on a nylon support and fluorescence detection. <i>Analytica Chimica Acta</i> , 2004, 506, 161-170.	2.6	74
10	Multicomponent determination of flavour enhancers in food preparations by partial least squares and principal component regression modelling of spectrophotometric data. <i>Analyst, The</i> , 1993, 118, 807-813.	1.7	72
11	Capillary electrophoretic determination of methotrexate, leucovorin and folic acid in human urine. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 819, 141-147.	1.2	67
12	Simultaneous determination of 2-furfuraldehyde, 5-hydroxymethylfurfuraldehyde and malonaldehyde in mixtures by derivative spectrophotometry and partial least-squares analysis. <i>Analytica Chimica Acta</i> , 1993, 276, 141-149.	2.6	64
13	Adsorption of Pb ²⁺ by heat-treated and sulfurized activated carbon. <i>Carbon</i> , 1993, 31, 1249-1255.	5.4	64
14	Determination of oxytetracycline and doxycycline in pharmaceutical compounds, urine and honey by derivative spectrophotometry. <i>Analyst, The</i> , 1989, 114, 1141.	1.7	60
15	Determination of methotrexate, several pteridines, and creatinine in human urine, previous oxidation with potassium permanganate, using HPLC with photometric and fluorimetric serial detection. <i>Analytical Biochemistry</i> , 2005, 346, 201-209.	1.1	60
16	Partial least squares multicomponent fluorimetric determination of fluoroquinolones in human urine samples. <i>Talanta</i> , 2004, 62, 853-860.	2.9	55
17	Second-order multivariate calibration procedures applied to high-performance liquid chromatography coupled to fast-scanning fluorescence detection for the determination of fluoroquinolones. <i>Journal of Chromatography A</i> , 2009, 1216, 4868-4876.	1.8	53
18	Determination of fluoroquinolones in urine and serum by using high performance liquid chromatography and multiemission scan fluorimetric detection. <i>Talanta</i> , 2006, 68, 1215-1221.	2.9	52

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19	Abilities of differentiation and partial least squares methods in the analysis by differential pulse polarography Simultaneous determination of furazolidone and furaltadone. <i>Analytica Chimica Acta</i> , 1995, 302, 9-19.	2.6	51
20	Simultaneous determination of pesticides by multivariate spectral analysis and derivative spectrophotometry. <i>Analytica Chimica Acta</i> , 1992, 258, 47-53.	2.6	50
21	High-Performance Liquid Chromatographic Fluorometric Determination of Glyoxal, Methylglyoxal, and Diacetyl in Urine by Prederivatization to Pteridinic Rings. <i>Analytical Biochemistry</i> , 1998, 255, 263-273.	1.1	50
22	Adsorptive stripping square wave voltammetry (Ad-SSWV) accomplished with second-order multivariate calibration. <i>Analytica Chimica Acta</i> , 2008, 618, 131-139.	2.6	50
23	Comparative study of partial least squares and a modification of hybrid linear analysis calibration in the simultaneous spectrophotometric determination of rifampicin, pyrazinamide and isoniazid. <i>Analytica Chimica Acta</i> , 2001, 427, 129-136.	2.6	49
24	In-vitro evaluation of the availability of ω -3 and ω -6 fatty acids and tocopherols from microencapsulated walnut oil. <i>Food Research International</i> , 2012, 48, 316-321.	2.9	48
25	Adsorption of Pb ²⁺ in aqueous solution by SO ₂ -treated activated carbon. <i>Carbon</i> , 2004, 42, 1755-1764.	5.4	47
26	Comparative study of net analyte signal-based methods and partial least squares for the simultaneous determination of amoxicillin and clavulanic acid by stopped-flow kinetic analysis. <i>Analytica Chimica Acta</i> , 2002, 463, 75-88.	2.6	46
27	Derivative spectrophotometric determination of sulphonamides by the Bratton-Marshall reaction. <i>Analytica Chimica Acta</i> , 1990, 233, 289-294.	2.6	44
28	Photoinduced spectrofluorimetric determination of fluoroquinolones in human urine by using three- and two-way spectroscopic data and multivariate calibration. <i>Analytica Chimica Acta</i> , 2005, 531, 257-266.	2.6	44
29	Four-way multivariate calibration using ultra-fast high-performance liquid chromatography with fluorescence excitation-emission detection. Application to the direct analysis of chlorophylls a and b and pheophytins a and b in olive oils. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2013, 125, 121-131.	1.8	43
30	Determination of carbendazim, thiabendazole and fuberidazole using a net analyte signal-based method. <i>Talanta</i> , 2003, 59, 1107-1116.	2.9	42
31	Two Multivariate Strategies Applied to Three-Way Kinetic Spectrophotometric Data for the Determination of Mixtures of the Pesticides Carbaryl and Chlorpyrifos. <i>Applied Spectroscopy</i> , 2004, 58, 83-90.	1.2	41
32	Determinations of fluoroquinolones and nonsteroidal anti-inflammatory drugs in urine by extractive spectrophotometry and photoinduced spectrofluorimetry using multivariate calibration. <i>Analytical Biochemistry</i> , 2005, 347, 275-286.	1.1	40
33	High-performance liquid chromatographic determination of glyoxal and methylglyoxal in urine by prederivatization to lumazinic rings using in serial fast scan fluorimetric and diode array detectors. <i>Analytical Biochemistry</i> , 2007, 371, 82-91.	1.1	40
34	Determination of marker pteridines in urine by HPLC with fluorimetric detection and second-order multivariate calibration using MCR-ALS. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 2123-2135.	1.9	37
35	Development of a method for the determination of advanced glycation end products precursors by liquid chromatography and its application in human urine samples. <i>Journal of Separation Science</i> , 2012, 35, 2575-2584.	1.3	36
36	Separation of fifteen quinolones by high performance liquid chromatography: Application to pharmaceuticals and ofloxacin determination in urine. <i>Journal of Separation Science</i> , 2007, 30, 1242-1249.	1.3	35

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37	Simultaneous determination of 2-furfuraldehyde and 5-(hydroxymethyl)-2-furfuraldehyde by derivative spectrophotometry. <i>Journal of Agricultural and Food Chemistry</i> , 1992, 40, 1022-1025.	2.4	33
38	Determination of antitubercular drugs in urine and pharmaceuticals by LC using a gradient flow combined with programmed diode array photometric detection. <i>Talanta</i> , 2002, 58, 273-280.	2.9	33
39	Enhanced MCR-ALS modeling of HPLC with fast scan fluorimetric detection second-order data for quantitation of metabolic disorder marker pteridines in urine. <i>Talanta</i> , 2011, 85, 2368-2374.	2.9	33
40	Analysis of pteridines and creatinine in urine by HPLC with serial fluorimetric and photometric detectors. <i>Chromatographia</i> , 2001, 53, 510-514.	0.7	32
41	Strategies for solving matrix effects in the analysis of sulfathiazole in honey samples using three-way photochemically induced fluorescence data. <i>Talanta</i> , 2005, 65, 806-813.	2.9	32
42	Determination of marker pteridins and biopterin reduced forms, tetrahydrobiopterin and dihydrobiopterin, in human urine, using a post-column photoinduced fluorescence liquid chromatographic derivatization method. <i>Analytica Chimica Acta</i> , 2009, 648, 113-122.	2.6	32
43	HPLC determination of ciprofloxacin, cloxacillin, and ibuprofen drugs in human urine samples. <i>Journal of Separation Science</i> , 2006, 29, 1969-1976.	1.3	31
44	Resolution of ternary mixtures of nitrofurantoin, furazolidone and furaltadone by application of Partial Least Squares analysis to the differential pulse polarographic signals. <i>Talanta</i> , 1994, 41, 1821-1832.	2.9	30
45	On line photochemically induced excitation-emission-kinetic four-way data. <i>Analytica Chimica Acta</i> , 2008, 622, 94-103.	2.6	30
46	Kinetic determination of ansamicins in pharmaceutical formulations and human urine. Manual and semiautomatic (stopped-flow) procedures. <i>Analytica Chimica Acta</i> , 1998, 376, 365-375.	2.6	29
47	Selection of the wavelength range and spectrophotometric determination of leucovorin and methotrexate in human serum by a net analyte signal based method. <i>Talanta</i> , 2002, 58, 255-263.	2.9	29
48	Simultaneous determination of chlorpyrifos and carbaryl by differential degradation using diode-array spectrophotometry optimized by partial least squares. <i>Analyst, The</i> , 1994, 119, 1183.	1.7	28
49	Determination of Synthetic Food Antioxidants in Multicomponent Mixtures Using UV-Visible Spectrophotometry and Partial Least-Squares Calibration. <i>Applied Spectroscopy</i> , 1996, 50, 449-453.	1.2	27
50	Determination of antitubercular drugs by micellar electrokinetic capillary chromatography (MEKC). <i>Analytical and Bioanalytical Chemistry</i> , 2002, 374, 432-436.	1.9	27
51	Kinetic fluorimetric determination of the antineoplastic methotrexate (MTX) in human serum. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2002, 29, 851-858.	1.4	27
52	Determination of danofloxacin in milk combining second-order calibration and standard addition method using excitation-emission fluorescence data. <i>Food Chemistry</i> , 2009, 113, 1260-1265.	4.2	25
53	Second-Order Calibration of Excitation-Emission Matrix Fluorescence Spectra for the Determination of N-Phenylanthranilic Acid Derivatives. <i>Applied Spectroscopy</i> , 2006, 60, 330-338.	1.2	24
54	Simultaneous kinetic spectrophotometric determination of 2-furfuraldehyde and 5-hydroxymethyl-2-furfuraldehyde by application of a modified Winkler's method and partial least squares calibration. <i>Analyst, The</i> , 1995, 120, 2567-2571.	1.7	23

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55	Stopped-flow determination of dipyridamole in pharmaceutical preparations by micellar-stabilized room temperature phosphorescence. <i>Talanta</i> , 1999, 48, 1061-1073.	2.9	23
56	Simultaneous determination of pteridines in multicomponent mixtures using derivative spectrophotometry and partial least-squares calibration. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1998, 17, 1325-1334.	1.4	22
57	Determination of triamterene in pharmaceutical formulations and of triamterene and its main metabolite hydroxytriamterene sulfate in urine using solid-phase and aqueous solution luminescence. <i>Analytica Chimica Acta</i> , 2005, 538, 77-84.	2.6	22
58	Photoinduced fluorimetric determination of folic acid and 5-methyltetrahydrofolic acid in serum using the kinetic evolution of the emission spectra accomplished with multivariate second-order calibration methods. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 827-835.	1.9	22
59	Determination of triamterene and leucovorin in biological fluids by UV derivative-spectrophotometry and partial least-squares (PLS-1) calibration. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2002, 27, 81-90.	1.4	21
60	Comparative quantification of chlorophyll and polyphenol levels in grapevine leaves sampled from different geographical locations. <i>Scientific Reports</i> , 2020, 10, 6246.	1.6	21
61	Separation and determination of 11 marker pteridines in human urine by liquid chromatography and fluorimetric detection. <i>Journal of Separation Science</i> , 2011, 34, 1283-1292.	1.3	20
62	LC determination of biopterin reduced forms by UV-photogeneration of biopterin and fluorimetric detection. <i>Talanta</i> , 2008, 77, 844-851.	2.9	19
63	Determination of malonaldehyde in human plasma: elimination of spectral interferences in the 2-thiobarbituric acid reaction. <i>Analyst</i> , 1993, 118, 89.	1.7	18
64	Determination of nafronyl in pharmaceutical preparations by means of stopped-flow micellar-stabilized room temperature phosphorescence. <i>Analyst</i> , 1998, 123, 2285-2290.	1.7	18
65	Simultaneous determination of nafcillin and methicillin by different fluorimetric techniques using partial least-squares calibration. <i>Analyst</i> , 1998, 123, 1073-1077.	1.7	18
66	A simple HPLC-ESI-MS method for the direct determination of ten pteridinic biomarkers in human urine. <i>Talanta</i> , 2012, 101, 465-472.	2.9	18
67	Flow-injection determination of HMF in honey by the Winkler method. <i>Fresenius' Journal of Analytical Chemistry</i> , 1991, 340, 250-252.	1.5	17
68	High-performance liquid chromatography with fast-scanning fluorescence detection and post-column on-line photoderivatization for the analysis of folic acid and its metabolites in vegetables. <i>Microchemical Journal</i> , 2017, 133, 333-345.	2.3	17
69	Stopped-flow fluorimetric determination of amoxicillin and clavulanic acid by partial least-squares multivariate calibration. <i>Talanta</i> , 2002, 56, 635-642.	2.9	16
70	Comparison of UV derivative-spectrophotometry and partial least-squares (PLS-1) calibration for determination of methotrexate and leucovorin in biological fluids. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 373, 251-258.	1.9	15
71	Complexation study of cinalukast and montelukast with cyclodextrines. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007, 43, 1025-1032.	1.4	14
72	Influence of the presence of natural monosaccharides in the quantification of α -dicarbonyl compounds in high content sugar samples. A comparative study by ultra-high performance liquid chromatography–single quadrupole mass spectrometry using different derivatization reactions. <i>Journal of Chromatography A</i> , 2015, 1422, 117-127.	1.8	14

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73	Analytical properties of pyridine-2-aldehyde guanylhydrazone. <i>Talanta</i> , 1981, 28, 134-136.	2.9	13
74	Room temperature phosphorescence of 1-naphthalenacetamide included in β -cyclodextrin in presence of 1,3-dibromopropane. <i>Talanta</i> , 1999, 48, 15-21.	2.9	13
75	Simultaneous determination of the residues of fourteen quinolones and fluoroquinolones in fish samples using liquid chromatography with photometric and fluorescence detection. <i>Czech Journal of Food Sciences</i> , 2012, 30, 74-82.	0.6	13
76	HPLC determination of serum pteridine pattern as biomarkers. <i>Talanta</i> , 2014, 128, 319-326.	2.9	13
77	Salicylaldehyde guanylhydrazone as an analytical reagent for spectrophotometric estimation of iron. <i>Microchemical Journal</i> , 1984, 30, 380-388.	2.3	12
78	Kinetic-spectrophotometric determination of Cu(II) and pyridine by use of the aerial oxidation of dimedone bisguanylhydrazone. <i>Talanta</i> , 1984, 31, 325-330.	2.9	12
79	Simultaneous determination of sulfathiazole and oxytetracycline in honey by derivative spectrophotometry. <i>Microchemical Journal</i> , 1991, 43, 244-252.	2.3	12
80	Multivariate Prediction by Using Conventional and Derivative Partial Least Squares Statistics in a Complex Chemical System. Ternary Metals Mixture Resolution. <i>Analytical Letters</i> , 1995, 28, 193-205.	1.0	12
81	Evaluation of Liquid Chromatographic Behavior of Lumazinic Derivatives, from β -Dicarbonyl Compounds, in Different C18 Columns: Application to Wine Samples Using a Fused-Core Column and Fluorescence Detection. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 97-106.	2.4	12
82	A novel analytical methodology for the determination of hydroxy polycyclic aromatic hydrocarbons in breast and cow milk samples. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020, 1136, 121912.	1.2	10
83	Simultaneous kinetic determination of chlorpyrifos and carbaryl based on differential degradation processes in alkaline oxidative medium. <i>Mikrochimica Acta</i> , 1994, 113, 9-17.	2.5	9
84	Abilities of partial least squares (PLS) multivariate calibration in the analysis of a quaternary mixture of sulfonamides. <i>Fresenius' Journal of Analytical Chemistry</i> , 1996, 354, 245-249.	1.5	9
85	Kinetic behaviour of the malonaldehyde-thiobarbituric acid reaction. kinetic-fluorimetric determination of malonaldehyde in human serum. <i>Analytica Chimica Acta</i> , 1996, 320, 125-132.	2.6	8
86	Kinetic fluorimetric study of the oxidation reaction of folic acid (leucovorin) with potassium permanganate. Determination in human urine. <i>Talanta</i> , 2001, 55, 623-630.	2.9	8
87	Voltammetric Behavior and Determination of Nordihydroguaiaretic Acid in Presence of Other Antioxidants Using PLS Calibration. <i>Electroanalysis</i> , 2003, 15, 646-651.	1.5	8
88	Phenylalanine Photoinduced Fluorescence and Characterization of the Photoproducts by LC-MS. <i>Journal of Fluorescence</i> , 2019, 29, 1445-1455.	1.3	8
89	Use of a Stopped-Flow Pneumatic Mixing Module To Analyze Dinitrophenol Pesticides. Simultaneous Determination of Dinoseb and Dinobuton. <i>Journal of Agricultural and Food Chemistry</i> , 1999, 47, 1976-1980.	2.4	7
90	Simultaneous Fluorimetric Determination of Pteridin Derivatives: Comparison between Synchronous, Partial Least-Squares, and Hybrid Linear Analysis Methods. <i>Applied Spectroscopy</i> , 2001, 55, 701-707.	1.2	7

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91	Phenanthrene metabolites determination in human breast and cow milk by combining elution time-emission fluorescence data with multiway calibration. <i>Talanta</i> , 2018, 188, 299-307.	2.9	7
92	Optimization of the thiobarbituric acid-malonaldehyde reaction in non-aqueous medium. Direct analysis of malonaldehyde in oil samples by HPLC with fluorimetric detection. <i>Microchemical Journal</i> , 2020, 159, 105318.	2.3	7
93	Simultaneous Determination of Carbaryl, Chlorpyrifos, and Its Metabolite 3,5,6-Trichloro-2-pyridinol (TCP) by Derivative Spectrophotometry. Direct Determination of the Degradation Grade of a Pesticide Formulation by Measurement of TCP. <i>Journal of Agricultural and Food Chemistry</i> , 1995, 43, 146-150.	2.4	6
94	Extraction and spectrophotometric determination of silver in ores, electronics flow-solders and white metals with 2-carboxybenzaldehyde thiosemicarbazone. <i>Analyst</i> , The, 1995, 120, 2857-2860.	1.7	6
95	Kinetic Determination of 2-Furfuraldehyde Based in a Modified Winkler's Method. <i>Journal of Agricultural and Food Chemistry</i> , 1996, 44, 2962-2965.	2.4	6
96	pH-Induced Difference Spectrophotometry in the Analysis of Binary Mixtures.. <i>Analytical Letters</i> , 1996, 29, 2525-2540.	1.0	6
97	Development of an HPLC-MS method for the determination of natural pteridines in tomato samples. <i>Analytical Methods</i> , 2016, 8, 6404-6414.	1.3	6
98	Elimination of spectral interferences in the reaction of 2-thiobarbituric acid with malonaldehyde, 2-furfuraldehyde and 5-hydroxymethyl-2-furfuraldehyde by partial least squares multivariate calibration (PLS). <i>Fresenius' Journal of Analytical Chemistry</i> , 1993, 347, 371-375.	1.5	5
99	Kinetic study of the degradation of chlorpyrifos by using a stopped-flow fia system. Semiautomatic determination in commercial formulations. <i>Talanta</i> , 1994, 41, 651-657.	2.9	5
100	Pteridine determination in human serum with special emphasis on HPLC methods with fluorimetric detection. <i>Pteridines</i> , 2017, 28, 67-81.	0.5	5
101	Kinetic Study of the Malonaldehyde-Azulene Reaction Determination of Malonaldehyde in Human Plasma. <i>Analytical Biochemistry</i> , 1994, 222, 396-403.	1.1	4
102	Kinetic Fluorometric Determination of Malonaldehyde Based on the Hantzsch Reaction: Application to Olive Oil Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 1997, 45, 172-177.	2.4	4
103	Spectrophotometric Determination of Cobalt in Vitamin Preparations, Steel and Iron Using 2-Hydroxy-1-Naphthaldehyde Guanylhydrazone. <i>Analytical Letters</i> , 1988, 21, 2011-2016.	1.0	3
104	Rapid ultrasensitive chemometrics-fluorescence methodology to quantify fluoroquinolones antibiotics residues in surface water. <i>Journal of Water Chemistry and Technology</i> , 2016, 38, 280-286.	0.2	3
105	HPLC-fast scanning fluorimetric detection determination of risk exposure to polycyclic aromatics hydrocarbons biomarkers in human urine. <i>Bioanalysis</i> , 2017, 9, 265-278.	0.6	3
106	Spectrophotometric and polarographic study of pyridine-2-aldehyde guanylhydrazone-Cu(II) complex. <i>Microchemical Journal</i> , 1983, 28, 69-76.	2.3	2
107	Spectrophotometric and polarographic studies of pyridin-2-aldehyde guanylhydrazone-Fe(II) system. <i>Microchemical Journal</i> , 1984, 30, 186-193.	2.3	2
108	Polarographic behavior of 2-carboxybenzaldehyde thiosemicarbazone and the indirect trace determination of palladium(II) ions in catalysts. <i>Electroanalysis</i> , 1995, 7, 488-491.	1.5	0

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109	Rapid Kinetic Spectrophotometric Determination of Phosalone (Zolone) in a Commercial Formulation. Journal of AOAC INTERNATIONAL, 2000, 83, 1-7.	0.7	0